

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

**Claims 1-3 (canceled)**

1           **Claim 4 (currently amended):** A magnetron drive power  
2   supply comprising a commercial power supply, a high-  
3   frequency inverter for converting electric power of the  
4   commercial power supply into high-frequency power and  
5   supplying the high-frequency power to a high-voltage  
6   transformer, a high-voltage rectification circuit and a  
7   magnetron being connected to secondary output of the high-  
8   voltage transformer, a means to monitor the voltage of the  
9   commercial power supply comprising an input current  
10   detector which detects a current value of the high-  
11   frequency inverter, and controller for controlling the  
12   high-frequency inverter, characterized in that loss of  
13   voltage from the commercial power supply is determined and  
14   the controller stops the high-frequency inverter if the  
15   detection value of the input current detector has a  
16   predetermined difference from a target value continuously  
17   for a given time, ~~the controller stops the high-frequency~~  
18   inverter.

1           **Claim 5 (original):** The magnetron drive power supply  
2    as claimed in claim 4 wherein the predetermined difference  
3    between the detection value of the input current detector  
4    and the target value is set in response to the target  
5    value.